Alpha Magnetics, S.O	
Revision	
Date	_

## ALPHA MAGNETICS, INC.

# KTeV ANALYSIS MAGNET TRAVELER FOR THE DOUBLE COIL LAYER

UPPER DOUBLE COIL LAYER 3832.252-ME-267030 LOWER DOUBLE COIL LAYER 3832.252-ME-267044

Prepared by Don Klein/Dennis Klein

KTeV Analysis Magnet Traveler for Double Coll Layer

	Revision
Check applic	able drawing below, insure that the drawing is legible.
V	Upper Double Coil Layer 3832.252-ME-267030
	Lower Double Coil Layer 3832.252-ME-267044
	ayer made from single inlet layer No.

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#### 1.0 General Notes

- 1.1 White (lint free) gloves or surgical latex gloves shall be worn by all personnel when handling all product parts after the parts have been prepared/cleaned.
- 1.2 All steps that require a sign-off shall include the Technician/Inspector's first initial and full last name.
  All entries in the Traveler are to be in black ink.
- 1.3 No erasures or white-out will be permitted to any documentation. All incorrectly entered data shall be corrected by placing a single line through the error, initial and date the error before adding the correct data.
- 1.4 Any and all data, signatures or written notes shall be eligible by others.
- 1.5 Haif lap 40% to 50% coverage (overlap)
- 1.6 If damage or a deviation from the specifications are found, a Discrepancy Report Form must be completed and attached behind the page in which the discrepancy occurred before production can proceed. All Discrepancy Reports issued shall be recorded in the left margin next to the applicable step.
- 1.7 If coil is not being worked on it shall be protected from the elements and dust by wrapping it in an ant-static sheeting (such as Herculite).
- 1.8 Attach to the appropriate traveler any requests for a variance from previously accepted procedures and the Fermilab approval.
- 1.9 Attach to the traveler a copy of that portion of the coil fabrication and testing plan which is relevant to the work covered by the traveler.

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### 2.0 <u>Layer Assembly</u>

- 2.1 Select proper inlet and outlet single layers. Nest single layers together and mark leads to be cut to proper length.
- 2.2 Cut layer pigtails to proper length and machine end in accordance with drawing 3832.252-MB-267033A.
- 2.3 Make certain all chips are removed from I.D. of conductor.
- 2.4 Deburr and degrease pigtail ends.
- 2.5 Record results of machining conterbore depth:

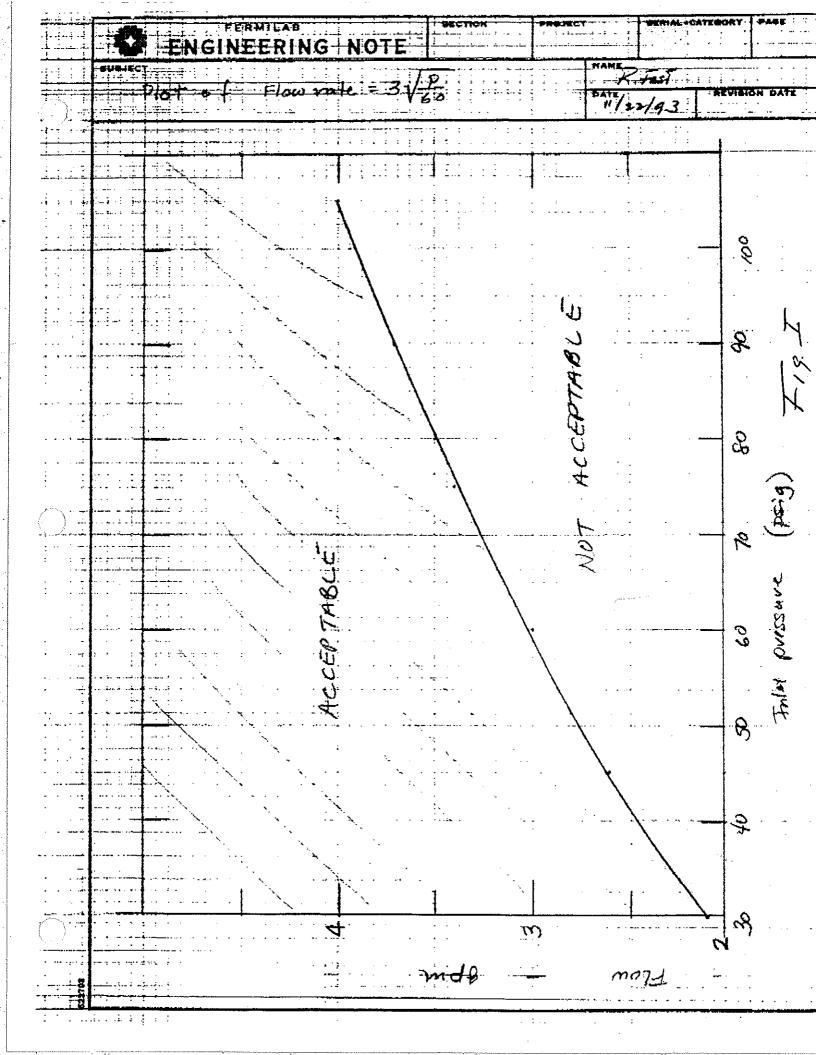
Inner layer 740
Outer layer 740
Bevel Angle 450 Degrees

- 2.7 Weld butt joint per applicable drawing, and approved welding procedure.

		Kevision
Double Layer Te	sting	Date
3.1 Water Test	- Flow Rate	
	<del>-</del>	n domestic water for 10 30 PSIG (60 PSIG pre-
Record: Pressure_ Flow Rate	35 2.59	- GPM
Water Tem		Degrees F
	r	,D08,000 i
NOTE:	See attached chaflow rate.	art (Fig. I) for acceptable
3.2 Water Test	- Hydrostatic	
PSIG. Isola		ssurize to 375 + 25/-0 No drop in pressure e period.
Record:		
Pressure_	400	PSIG
Results	600d	,
Confor		9-27-94
Test Techn	ician	Date
	1/6	9-27-84
QC/QA Ins	pector	Date
		our out prov

3.0

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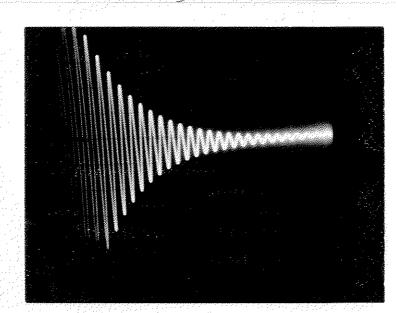
#### Dye Penetrant Test 3.3

Cracks longer than I/I6" shall be filed out and rewelded. Attach results.

Tested By Organization High Test Date 9-2

3.4 Perform ring test on double layer before double layer insulation procedure. Apply 80 volts across coil terminais.

Volts/Div. Sweep



Test Technician

QA/QC Inspector

9-26-84

Date

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<u>Doui</u>	ole Layer Post Electrical Test	
4.	Bridge S/N or Model /650	Degrees F
4.2	D.C. Hipot Test (200 Volts D.C. Voltage 200 D Leakage Current 3 m (200 Temperature 70 Relative Humidity 60	).C.
4.3	Ring Test (80 Volts D.C.) Voltage   O O O O O O O O O O O O O O O O O O	D.C.
		297-94
Test	Technician	Date

4.0

QC/QA Inspector

Date

		Revision Date	
<u>Dou</u>	ble Layer Production Complete		
5.1	QA/QC Inspector verify that sections 1 through 4 are accurate and complete and that all Discrepancy Reports have had disposition made.		
	Comments:		
_			
·	Jenns Man	10-3-94	
	QA/QC Inspector	Date	
5.2	Production Supervisor verify the accurate and complete.	at section 1 through 4 are	
	Comments:		
`		4 3 0 1	
<	Production Manager		
5.3	Fermilab representative verify that are accurate and complete.	hat section 1 through 4	
	Fermilab Representative	Date	

5.0